

## CLAIMS

What we claim as our invention is:

1. In a communications system, an apparatus to form a group of communication  
4 devices over a distributed network, said apparatus comprising:  
a first node to establish a first channel with a first communication device;  
6 at least one second node to establish at least one second channel with at least one  
second communication device; and  
8 a controller electrically connected to said first node and said at least one second  
node, said controller further comprising a database module, wherein said database  
10 module comprises identification information of each of said communication devices of  
said group, wherein said controller is dynamically configurable such that any single  
12 communication device of said group is capable of sending packet data through its  
respective channel to the other communication devices of said group.  
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2. The apparatus of Claim 1, wherein said packet data contains time-sensitive  
16 information.
3. The apparatus of Claim 1, wherein at least one of said communication devices is  
2 a wireless communication device.
4. The apparatus of Claim 1, wherein the controller further comprises a core module  
2 and a net module, wherein said core module establishes identification of each of said  
communications devices and redirects information from said communication devices to  
4 said net module, wherein said net module operates and manages information transmitted  
between said group of communication devices.  
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5. The apparatus of Claim 4, wherein said database module is a part of said core  
2 module.

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6 devices to elicit a response from said communication devices to determine if said communication devices wish to remain active participants.

14. The apparatus of Claim 1, wherein said controller further comprises an arbitrator, wherein said arbitrator assigns a priority level to each of said communications devices, wherein said priority level determines a hierarchy of transmission privilege of said communications devices such that communication devices having a higher priority level may interrupt the transmission of communication devices having a lower priority level.

15. The apparatus of Claim 13 wherein said assignment of priority level is dynamically configurable.

16. The apparatus of Claim 1, wherein the controller further comprises a buffer memory, wherein the buffer memory stores said packet data until said communication device is ready to receive said packet data.

17. The apparatus of Claim 16, wherein said buffer memory is used to minimize perceived latency of a user.

18. The apparatus of Claim 1, wherein some of said communication devices operate in different communication infrastructures.

19. The apparatus of Claim 1, wherein the controller updates the identification information of said communication device when the identification information of said communication device has or is about to change.

20. The apparatus of Claim 1, wherein the controller sends information to said first communication device regarding said at least one second communication device.

21. The apparatus of Claim 1, wherein said first communication device is identified by a first identifier, and said at least one second communication device is identified by at least a one second identifier, and wherein said controller maintains said identifier of each of said communication devices and allows for transfer of packet data between said first communication device and said at least one second communication device.

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22. The apparatus of Claim 1, wherein said communication devices operate over a  
2 secure mode.

23. In a communications system, an apparatus to form a group of wireless push-to-  
2 talk communication devices over a distributed network, said apparatus comprising:  
a first node to establish a first channel with a first wireless push-to-talk  
4 communication device;  
at least one second node to establish at least one second channel with at least one  
6 second wireless push-to-talk communication device; and  
a controller electrically connected to said first node and said at least one second  
8 node, said controller further comprising a database module, wherein said database  
module comprising identification information of each of said wireless communication  
10 devices of said group, wherein said controller is dynamically configurable such that any  
single wireless push-to-talk communication device of said group is capable of sending  
12 packet data through its respective channel to the other wireless push-to-talk  
communication devices of said group.

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